

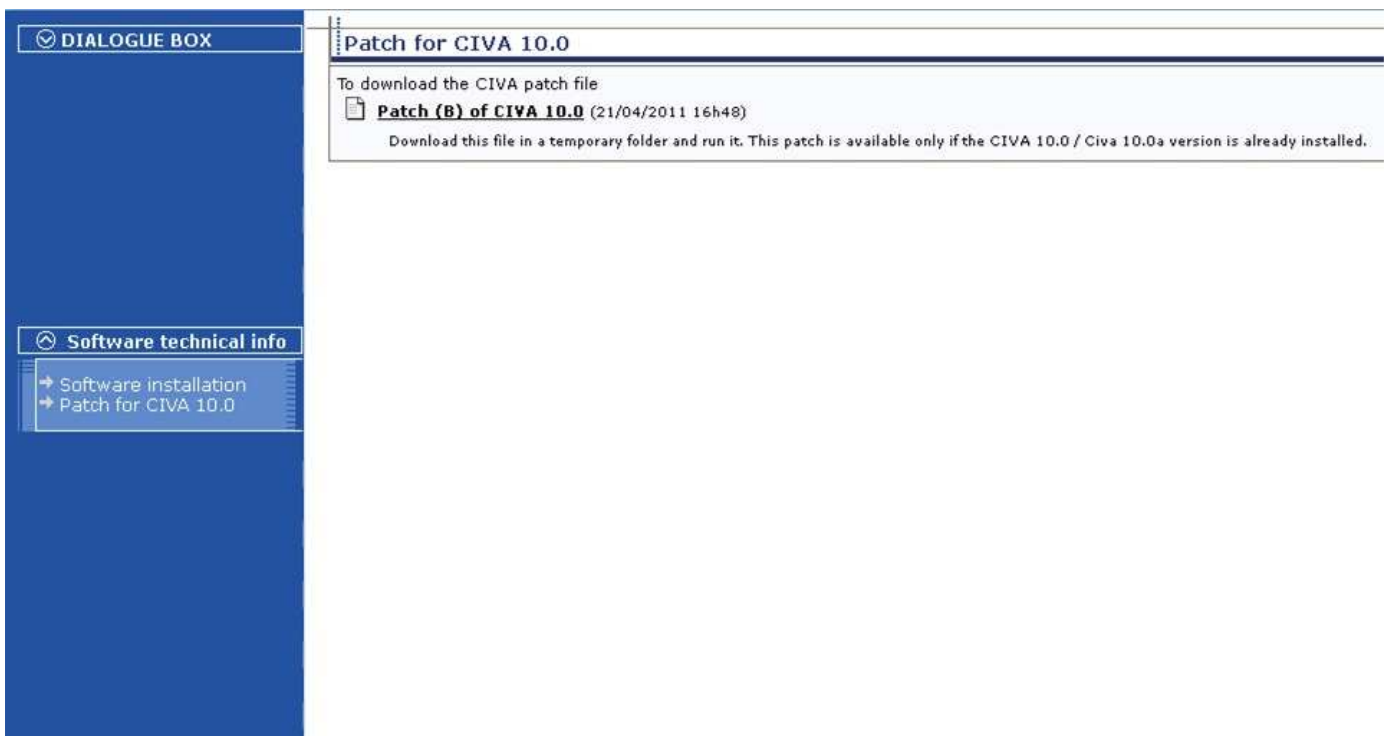


Patch b – Release Note

The patch **b** can be downloaded from the **CIVA club website**:

<https://www-civa-club.cea.fr>

Once connected, go in the following menu:



Download this file in a temporary folder and run it. This patch is available only if the CIVA 10.0 version is already installed. You need administrative rights to install the patch.

On the following page is displayed the list of the **improvements made** and the deficiencies corrected by this patch.

List of main improvements & corrected deficiencies :

UT Module

- Dramatic improvement of the *calculation time of defect response simulations in 3D CAD* component
- Positioning problems on several 3D CAD work pieces that prevented from running the simulation have been fixed
- Improvement of the simulations with *cylindrical and ellipsoidal inclusions*: several orientations are now available
- This is now possible to simulate the defect response of *Flat Bottomed Holes in half skip mode*
- In some cases, the calculation of the backwall echo crashed
- In some cases with a crystal presenting a bigle angle on a contact probe, the visualization of the transducer in the 3D view was wrong
- In some cases, the delay laws calculations were wrong (specific CAD geometries, tilted encircling/encircled arrays, etc.)

ET Module

- The mutual impedance computation between rectangular coils have been corrected
- In some cases involving a matrix array and a null lift-off, the calculation failed
- Better management of the memory required for a computation involving a flaw crossing several layers
- The defect response signals were not correct in some cases involving GMR sensors and a flaw crossing several layers
- When the ET sensor includes a E-shape ferrite core, there were some positioning problems

Civa Analysis Module

- One M2K acquisition file involving a 3D CAD component could not be analyzed in CIVA
- The analysis of data extracted after applying some limitations on M2k acquisition files could make CIVA unstable
- The time of flight given by the “Amplitude Measurement” tool was not always correct
- The amplitude given by the “Amplitude Measurement” tool was not always correct when a limitation were applied

All Modules

- Some labels in the English version have been corrected and some warning messages have been improved